Approved For Release 1999 (C DP82-00457R007300500Ø CLASSIFICATION U.S. OFFICIALS ONLY CENTRAL INTELLIGENCE AGENCY REPORT NO. INFORMATION REPORT CD NO. INTELLOFAX 18 COUNTRY Germany (Russian Zone) DATE DISTR. 26 April 1951 SUBJECT Development of Silicon Lacquera NO. OF PAGES 3 at the von Heyden Chemical Plant NO. OF ENCLS. 25X1A SUPPLEMENT TO 25X1X REPORT NO.

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INFO.

- The von Heyden Chemical Plant in Radobeul (E 52/F 19), an enterprise under the WD(Z) Alcid, is continuing its work on the development of silicon lacquers. * This work was kept secret during the war. The silicon lacquers, the silicon artificial resins and the silicon oils differ from most other lacquers, artificial resins and oils in that in the silicon products the organic elements of the ordinary lacquers, polymers and oils are, as it were, built in as supports (Tracger) in a crystal lattice of the mineral type, that is to say, in a silicon lattice. The structure approximates the following formula: Si - 0 - Si - 0 -, whereby the other CnIIn molecules are hooked in the Si and O components of the long nolecular chains (wobei dam in den Si- und O-Kormonenten der langen Molekularretten die anderen Collo-Koerper angehaengt werden).
- The mineral Si structure serves as a support for the organic compounds (das mineralische Si-Gefuege dient als Traeger der organischen Verbindungsn). Thus, these silicon products are a considerable improvement over other lacquers, artificial resins, and oils especially with regard to heat resistance, abrasion resistance, reduced inflammability etc. Engines treated with such lacquers can be subjected to a load three times that of other engines. ** The oils are very important especially for transformers and large switches of high capacity.

suited for insulation purposes in electrical engineering, especially with electrons and dynames. 25X1Aeees Comment. The information on the structure and possible uses of these products is correct. Decument No	
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